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PAPER NUMBER

	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
	09/369.803	08/06/1999	MARK CHRISTOPHER TONKIN	AD-6643	7271
	75	90 02/26/2002		·	
	WILLIAM H HAMBY E I DU PONT DE NEMOURS AND COMPANY LEGAL-PATENTS 1007 MARKET STREET			EXAMINER	
				BUSHEY, CHARLES S	
	100/MARKET	SIKEEI			11 3 11 11 3 1 3 1 1 1 1 1

DATE MAILED: 02/26/2002

ARTUNH

Please find below and/or attached an Office communication concerning this application or proceeding.

				MF-11			
•		Application No.	Applicant(s)				
	•	09/369,803	TONKIN ET AL.				
	Office Action Summary	Examiner	Art Unit				
		Scott Bushey	1724				
Period fo	The MAILING DATE of this communicate or Reply	ion appears on the cover sheet v	vith the correspondence add	ress			
THE - Exte after - If the - If NO - Failu - Any	MAILING DATE OF THIS COMMUNICA' maions of time may be available under the provisions of 37 SIX (6) MONTHS from the mailing date of this communicate period for reply specified above is less than thirty (30) dato period for reply is specified above, the maximum statutor use to reply within the set or extended period for reply will, reply received by the Office later than three months after the patent term adjustment. See 37 CFR 1.704(b).	TION. CFR 1.136(a). In no event, however, may a ation. ys, a reply within the statutory minimum of the yp period will apply and will expire SIX (6) MC by statute. cause the application to become A	reply be timely filed irty (30) days will be considered timely. NTHS from the mailing date of this con BANDONED (35 U.S.C. § 133).	nmunication.			
1)⊠	Responsive to communication(s) filed	on <u>07 January 2002</u> .					
2a)⊠	This action is FINAL . 2b)	☐ This action is non-final.					
3)	Since this application is in condition for closed in accordance with the practice	r allowance except for formal m under <i>Ex parte Quayle</i> , 1935 C	atters, prosecution as to the .D. 11, 453 O.G. 213.	merits is			
Disposit	ion of Claims						
4) 🖾	Claim(s) 3,6,11 and 15-35 is/are pending	ng in the application.					
	4a) Of the above claim(s) 15-21 is/are w	rithdrawn from consideration.					
5)🖾	Claim(s) 3,6 and 11 is/are allowed.						
6)⊠	6)⊠ Claim(s) <u>22,23,25,26,28-31 and 33-35</u> is/are rejected.						
7)🖂	Claim(s) 24,27 and 32 is/are objected to	0.					
8) 🗌	Claim(s) are subject to restriction	and/or election requirement.					
Applicat	ion Papers			•			
9) The specification is objected to by the Examiner.							
10)⊠ The drawing(s) filed on <u>07 January 2002</u> is/are: a)⊠ accepted or b)⊡ objected to by the Examiner.							
	Applicant may not request that any objection	on to the drawing(s) be held in abe	yance. See 37 CFR 1.85(a).				
11)	The proposed drawing correction filed or	n is: a) approved b)	disapproved by the Examine	r.			
	If approved, corrected drawings are require	ed in reply to this Office action.					
12)	The oath or declaration is objected to by	the Examiner.					
Priority (under 35 U.S.C. §§ 119 and 120		•				
13)	Acknowledgment is made of a claim for	foreign priority under 35 U.S.C	. § 119(a)-(d) or (f).				
a)	☐ All b)☐ Some * c)☐ None of:						
	1. Certified copies of the priority doc	cuments have been received.					
	2. Certified copies of the priority doc	cuments have been received in	Application No				
* (3. Copies of the certified copies of the application from the Internation from the attached detailed Office action for	onal Bureau (PCT Rule 17.2(a))		Stage			
14) 🔲 /	14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application)						
	a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.						
Attachmer	nt(s)						
2) Notic	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO- mation Disclosure Statement(s) (PTO-1449) Paper	948) 5) Notice o	v Summary (PTO-413) Paper No(s f Informal Patent Application (PTO				
	Fradamark Office						

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DETAILED ACTION

Election/Restrictions

1. This application contains claims 15-21 drawn to an invention nonelected with traverse in Paper No. 6 (paragraph 4 of the Detailed Action). A complete reply to the final rejection must include cancellation of nonelected claims or other appropriate action (37 CFR 1.144) See MPEP § 821.01.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 22, 23, 25, and 26 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by McElroy et al (Figs. 1 and 2; abstract; col. 1, lines 58-60; col. 2, lines 42-55).

With respect to instant claims 25 and 26, the recitation of "an engine" has not been given patentable weight because the recitation occurs in the preamble. A preamble is generally not accorded any patentable weight where it merely recites the purpose of a process or the intended use of a structure, and where the body of the claim does not depend on the preamble for completeness but, instead, the process steps or structural limitations are able to stand alone. See *In re Hirao*, 535 F.2d 67, 190 USPQ 15 (CCPA 1976) and *Kropa v. Robie*, 187 F.2d 150, 152, 88 USPQ 478, 481 (CCPA 1951).

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Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 6. Claims 28-31, 33, and 34 are rejected under 35 U.S.C. 103(a) as being unpatentable over McElroy et al taken together with Robinson.

McElroy et al as applied to claims 22, 23, 25, and 26 above, substantially discloses applicant's invention as recited by instant claims 28-31, 33, and 34, except for recitation that the humidification device is within a motorized vehicle that includes an engine, as recited by instant claims 30, 31, 33, and 34, and the heat from the engine exhaust being used to preheat the water prior to contact with the incoming intake air, the flow of the exhaust gases being controlled by a temperature sensing element.

Robinson (Fig. 1; col. 3, lines 13-21) teaches the well known use of the heat from engine exhaust gases to preheat water (23) within a reservoir prior to contact of the water vapor with

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intake air to humidify the intake air prior to its passage to a carburetor (16), the flow of the exhaust gases through the heat exchange coil (44) within the water reservoir being controlled by a temperature sensor (47) that controls valve (46) in the exhaust line. It would have been obvious for an artisan at the time of the invention, to provide the air humidifying device as taught by McElroy et al, as applied to claims 22, 23, 25, and 26 above, with water preheating means that uses heat from the engine exhaust, in view of Robinson, since such would efficiently provide a saturated air intake stream using available waste heat, while also cooling the engine exhaust prior to its release to the atmosphere, thereby reducing thermal pollution.

7. Claim 35 is rejected under 35 U.S.C. 103(a) as being unpatentable over the reference combination as applied to claims 28-31, 33, and 34 above, and further in view of Japan 61-216701.

The reference combination as applied to claims 28-31, 33, and 34 above, substantially suggests applicant's invention as recited by instant claim 35, except for the provision of a hydrophilic membrane to remove water from the fuel in a fuel tank associated with a motorized vehicle engine.

Japan 61-216701 (English Abstract; Figs. 1 and 2) discloses providing a hydrophilic membrane in conjunction with a fuel tank to remove water from the fuel in the fuel tank associated with a motorized vehicle engine prior to feeding the fuel to the engine. I it would have been obvious for an artisan at the time of the invention, to provide the primary reference combination with a fuel filter of the type disclosed by the Japanese reference, since such would reduce engine damage due to excessive water reaching the combustion chamber of the engine.

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Allowable Subject Matter

- 8. Claims 3, 6, and 11 are allowed for the reasons of record.
- 9. Claims 24, 27, and 32 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. The claims would be allowable for the same reasons as pertain to allowed claims 3, 6, and 11.

Response to Arguments

10. Applicant's arguments with respect to claims 22, 23, 25, 26, 28-31, and 33-35 have been considered but are moot in view of the new grounds of rejection.

Conclusion

Applicant's amendment necessitated the new grounds of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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12. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Scott Bushey whose telephone number is (703) 308-3581. The examiner can normally be reached on Monday-Thursday 6:30AM-5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David A. Simmons can be reached on (703) 308-1972. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 305-7718 for regular communications and (703) 872-9311 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0661.

Scott Bushey Primary Examiner Art Unit 1724

csb February 21, 2002

7-21-02